

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	1	(OTP (opposite near2 track near2 path)) and ((middle near2 (area zone)) same (reverse with direction))	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/06 15:21
L3	2	(OTP (opposite near2 track near2 path)) and ((middle near2 (area zone)) same (reverse))	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/06 15:23
L4	46	(OTP (opposite near2 track near2 path)) and (middle near2 (area zone)) and (revers\$4 near2 direction)	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/06 15:25
L5	45	(middle near2 (area zone)) with ((revers\$4 chang\$4) near2 direction)	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/06 15:42
L6	68473	"369"/\$	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/06 15:42
L7	1	5 and 6	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/06 15:42
L8	23	(OTP (opposite near2 track near2 path)) with ((revers\$4 chang\$4) near2 direction)	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/06 15:42

L9	14	(OTP (opposite near2 track near2 path)) and (buffer\$4) and (jump\$4 near2 track)	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/06 16:16
L10	244	(OTP (opposite near2 track near2 path)) and (buffer\$4) and ((revers\$3 chang\$3) near2 direction)	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/06 16:25
L11	68473	"369"/\$	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/06 16:25
L12	77	10 and 11	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/06 16:25
L13	153	(OTP (opposite near2 track near2 path)) and (middle near2 (zone area)) and (direct\$4 with (chang\$4 revers\$4 rotat \$4))	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/05/06 16:39
S1	1	10/590738	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 12:04
S2	935	(koda near2 takeshi) (kazuo near2 kuroda)	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 12:36
S3	40	(controlling near2 device) and (buffer near2 area) and (recording near2 layer) and (predetermined) and circumferential	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 12:39
S4	63464	"369"/\$	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 12:39

S5	28	S2 and S3 and S4	US-PGPUB; USPAT; USOOR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 12:39
S6	6890	(variable vary\$4 changeable chang\$4) with (buffer guard) with (area zone field section)	US-PGPUB; USPAT; USOOR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 12:53
S7	467	S4 and S6	US-PGPUB; USPAT; USOOR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 12:53
S8	1321680	(double dual second two multi) with layer	US-PGPUB; USPAT; USOOR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 12:53
S9	84	S7 and S8	US-PGPUB; USPAT; USOOR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 12:54
S10	1095	(variable vary\$4 changeable chang\$4) near5 buffer near2 (area zone field section)	US-PGPUB; USPAT; USOOR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 12:57
S11	87	S4 and S10	US-PGPUB; USPAT; USOOR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 12:57
S12	7073	(increas\$4 add\$4 creat\$4 form generat\$4) near5 buffer near2 (area zone field section)	US-PGPUB; USPAT; USOOR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 14:05
S13	273	S4 and S12	US-PGPUB; USPAT; USOOR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 14:06

S14	99	S8 and S13	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 14:06
S15	7286	(increas\$4 creat\$4 record \$4 writ\$4) near5 buffer near2 (area zone field section)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 14:32
S16	1081	S4 and S15	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 14:32
S17	326	S16 and S8	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/17 14:32
S18	11342	(first near3 layer) same (second near3 layer) same buffer	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:26
S19	36	outer near2 circumferential	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:27
S20	0	S18 and S19	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:27
S21	120333	outer near2 circumferential	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:27
S22	70	S18 and S21	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:27

S23	155436	(buffer dummy) near2 data	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:29
S24	31	S21 with S23	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:29
S25	17	S18 and S24	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:29
S26	707600	circumferential	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:32
S27	52	S23 with S26	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:32
S28	1226855	(buffer dummy)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:32
S29	418	S21 with S28	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:32
S30	24	S18 and S29	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:33
S31	425980	(first near3 layer) same (second near3 layer)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:33

S32	56	S29 and S31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:33
S33	1152894	outer near2 (circumferential edge boundary circumference peripher\$3 threshold)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:36
S34	1206141	(outermost outlying outmost outward exterior) near2 (circumferential edge boundary circumference peripher\$3 threshold)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:37
S35	3967	S28 with S34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:37
S36	440	S31 and S35	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:37
S37	96	S23 and S36	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:37
S38	742	(lead near2 out) with (buffer dummy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:39
S39	36	S18 and S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:39
S40	1335	first near2 lead near2 in	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:58

S41	192917	(final\$4 clos\$4) with (disc disk)	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:59
S42	0	S40 and S41 and S38	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:59
S43	26	S40 and S41	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 15:59
S44	3678336	(record\$4 writ\$4)	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 16:13
S45	9528	S28 and S44 and S41	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 16:13
S46	609	S33 same S28 same S44	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 16:14
S47	172654	(buffer dummy) near2 (data zone area)	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 16:14
S48	145	S31 and S46	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 16:15
S49	2	("2004/0125738").URPN.	USPAT	OR	OFF	2009/10/28 16:17

S50	15	("20010033517"   "20020041550"   "20020080706"   "20030048727"   "20030133376"   "20030227846"   "20040125738"   "20050207262"   "20050219979"   "20060007847"   "20060072408"   "6577511"   "6700843"   "6862256"   "7142495"). PN.	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:18
S51	28	buffer same (test near2 zone) same (lead near2 out) same (defect near2 management near2 zone)	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:21
S52	128594	(buffer dummy) near2 (area zone sector data)	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:22
S53	492	S34 same S52	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:22
S54	141	S41 and S44 and S53	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:22
S55	14	border same finaliz\$4 same buffer	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:27
S56	26052	((increas\$4 add\$4) with ((buffer dummy) near2 (area zone sector data))	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:28
S57	326	S56 and S41 and S34	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:30
S58	435	((first near2 lead near2 out) and (second near2 lead near2 out))	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:33
S59	0	S57 and S58	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:33
S60	82	S47 and S58	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:34
S61	10	multisession and (final\$4 near2 session) and ((buffer dummy) same (lead near2 out))	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:36
S62	14	multisession and (final\$4 clos\$4) and ((buffer dummy) same (lead near2 out))	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:37
S63	42	((first near2 session) and (final\$4 clos\$4) and ((buffer dummy) same (lead near2 out)))	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:39
S64	152	((first near2 session) and (final\$4 clos\$4) and S56	US-PGPUB; USPAT; USOOCR	OR	OFF	2009/10/28 16:40

S65	53	((increas\$4 variable add \$4) with ((buffer dummy) near2 (area zone sector data))) same (lead near2 out)	US_PGPUB; USPAT; USOOR	OR	OFF	2009/10/28 16:44
S66	51	((increas\$4 add\$4) with ((buffer dummy) near2 (area zone sector data))) same (lead near2 out)	US_PGPUB; USPAT; USOOR	OR	OFF	2009/10/28 17:02
S67	9	multisession and (second near2 layer) and (dummy buffer)	US_PGPUB; USPAT; USOOR; FFPS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 17:44
S68	1206141	(outer outermost outlying outmost outward exterior) near2 (circumferential edge boundary circumference peripher\$3 threshold)	US_PGPUB; USPAT; USOOR; FFPS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 17:46
S69	0	multisession and ((dummy buffer) with S68)	US_PGPUB; USPAT; USOOR; FFPS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 17:46
S70	3967	((dummy buffer) with S68)	US_PGPUB; USPAT; USOOR; FFPS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 17:46
S71	8	(second near2 session) and S70	US_PGPUB; USPAT; USOOR; FFPS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 17:47
S72	8	("20030081535"   "5881032"   "5966721"   "6072759"   "6370091"   "6424614"   "6801494"   "7184377").PN.	US_PGPUB; USPAT; USOOR	OR	OFF	2009/10/28 17:48
S73	7259	((dummy buffer) same S68)	US_PGPUB; USPAT; USOOR; FFPS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 17:52

S74	9	(second near2 session) and S73	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/28 17:52
S75	0	buffer same OTP same (middle near2 area)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/05 17:18
S76	81	OTP same (middle near2 area)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/05 17:19
S77	22	OTP and (buffer\$4 same (middle near2 area))	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/05 17:20
S78	203	(buffer\$4 same (middle near2 area))	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/05 17:21
S79	2	("2004/0120241").URPN.	USPAT	OR	OFF	2010/05/05 17:23
S80	75	OTP and buffer\$4 and (middle near2 area)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/05 17:48
S81	81	OTP same (middle near2 area)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/05 17:48
S82	41	OTP same (middle near2 area) same direction	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/05 17:48

S83	56	OTP and ((middle near2 area) same direction)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/05 17:49
S84	143	OTP and (middle near2 area)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/05 17:49
S85	244	(OTP (opposite near2 track near2 path)) and (middle near2 area)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/05 17:50
S86	244	(OTP (opposite near2 track near2 path)) and (middle near2 area)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/05 17:50
S87	268	(OTP (opposite near2 track near2 path)) and (middle near2 (area zone))	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/05 17:50
S88	55	(OTP (opposite near2 track near2 path)) and ((middle near2 (area zone)) with direction)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/05 17:52
S89	1	(OTP (opposite near2 track near2 path)) and ((middle near2 (area zone)) same (reverse with direction))	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/06 13:36

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